

Claims:

1. A wireless server system comprising:

a plurality of extensible hierarchical file modules, each providing
respective identifying file parameters pertinent to a type of wireless client; and

5 a file manager service, in response to receiving a particular client type
associated with a particular wireless client for dynamically selecting files in said
plurality of hierarchical file modules based on said particular client type,

wherein said file manager service is also for applying a selected file
module to said particular wireless client for identification thereof.

10 2. The wireless server system of Claim 1, further comprising an automatic client
aware detection service for automatically detecting client specific files in
response to service requests that originate from said particular wireless client.

15 3. The wireless server system of Claim 2, wherein information found with the
client service request comprises file information unique to a particular class of
clients or said particular client.

20 4. The wireless server system of Claim 1, wherein said plurality of file modules
are arranged to form a hierarchical file path with client data generic to a
particular class of client information at the top-most level of the hierarchy.

25 5. The wireless server system of Claim 4, wherein said hierarchical file path has,
at its lowest level, client file information unique to a particular client to
differentiate said particular client from others within said class of clients.

- 6. The wireless server system of Claim 5, wherein said file manager traverses said hierarchical file path to retrieve client aware specific files in response to client file request without said client having to provide the entire file path of the file to be retrieved.

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7. A client aware hierarchical file manager system in a wireless network, comprising:

a wireless server;

a plurality of a classes of wireless clients, each having unique file parameters; and

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an extensible file manager service for providing a file storage and retrieval procedure in response to file accesses requests from said wireless clients.

15 8. The client aware file manager system of Claim 7, wherein said file manager service comprises a plurality of extensible hierarchical file modules having dynamic file addition attributes to dynamically add client specific files to existing file system structure in said wireless sever during said client's run-time.

20 9. The client aware file manager system of Claim 8, wherein the file manager service further comprises a file selector for selectively traversing said extensible hierarchical file modules to retrieve files based on client type information of a client accessing the wireless server.

25 10. The client aware file management system of Claim 9, wherein said file manager service receives and parses service requests from the wireless clients to determine the file path to the file being requested by the wireless clients.

11. The client aware file management system of Claim 10, wherein the plurality of extensible hierarchical file modules include a set of predefined file parameters generic to clients within a class of wireless clients used by the wireless server to
5 identify said clients with known file characteristics accessing the wireless server.

12. The client aware file management system of Claim 9, wherein the wireless file server includes a file system structure capable of being dynamically updated with client file information during said client's run-time.

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13. A wireless server, comprising:
a client aware file manager service for providing file storage and retrieval service to a plurality of wireless clients accessing the wireless server; and
a plurality of client aware hierarchical file modules for hierarchically
15 storing file characteristics pertinent to a particular client and a class of clients within said plurality of wireless clients;
a client data storage for storing client type information; and
a session service logic for storing transient session information for said clients accessing said wireless server.

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14. The wireless server of Claim 13, wherein said plurality hierarchical file modules are extensible to allow dynamic file addition of client attributes to existing file system structure in said wireless sever during said client's run-time.

25 15. The wireless server of Claim 13, wherein the file manager service further comprises a file selector for selectively traversing said hierarchical file modules

- to retrieve files based on client type information of a client accessing the wireless server.

16. The wireless server of Claim 15, wherein said file manager service receives
5 and parses service requests from the wireless clients to determine the file path to the file being requested by the wireless clients.

17. The wireless server of Claim 16, wherein the plurality of hierarchical file
modules comprise a set of predefined file parameters generic to clients within a
10 class of wireless clients used by the wireless server to identify said clients with known file characteristics accessing the wireless server.

18. The wireless server of Claim 16, wherein the file manager module comprise
file selection logic to selectively retrieve files from file system structure in the
15 wireless server in response to a client service request.

19. The wireless server of Claim 16, wherein said client service request includes
hyper text transport protocol request headers.

20. The wireless server of Claim 16, wherein said client service request includes
client equipment manufacturer specific headers.

21. The wireless server of Claim 20, wherein the client service request includes
programmable user specified headers.

22. A client aware file management service, comprising
a plurality of client aware file characteristics modules; and

client aware file selection logic.

23. The client aware file management service of Claim 22, wherein said plurality
of client aware file characteristics modules comprise a predefined set of client
5 files for defining known clients accessing the client aware file management
modules.

24. The client aware authentication module of Claim 22, wherein said plurality
of client aware file characteristics modules comprise client characteristics
10 dynamically extracted from the clients run-time environment.

TO: "E46260"